is released; the word HOLD appears. The presence of the battery

The backlit LCD displays the current temperature in Celsius or

Fanrenneit. The unit will hold the reading for 7 seconds after trigger

unit is equipped with a laser, use the laser only for aiming. See How

Be sure to consider distance-to-spot size ratio and field of view. If the

To measure a temperature, point unit at object and pull the trigger.

positive side first into the battery compartment. NOTE: The battery

to access the C/H switch or to inserf/remove the battery. To toggle

Full open the unit's handle using the finger indents near the trigger

TINU 3HT 3TAR3990 OT WOH

between °C and °F, push the switch (see fig 1). Insert the 9v battery

icon indicates a low battery.

OPERATING THE UNIT

CION BATTERY

door is detachable.

to Accurately Measure Temperatures.

YAJ9SIU

HOW IT WORKS

or hard-to-reach objects without contact. You can safely measure surface temperatures of hot, hazardous, in less than a second.

Just aim, pull the trigger, and read current surface temperatures noncontact thermometer. Compact, rugged, and easy to use-We are confident you will find many uses for your handheld

ИОПТОВОСТІОИ

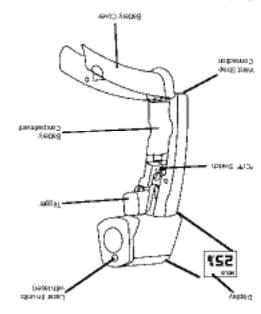
- Do not leave the unit on or near objects of high temperature
- remperature changes—allow 30 minutes for unit to stabilize Lyeumsl spock (cansed by large or abrupt ambient
 - - Static electricity SIEREU
- EMF (electro-magnetic fields) from arc welders, induction **FOLLOWING**,

ALL MODELS SHOULD BE PROTECTED FROM THE

CAUTIONS

INDIRECTLY OFF REFLECTIVE SURFACES. DO NOT POINT LASER DIRECTLY AT EYE OR (units with laser sighting)

WARNING



Laurence

specifications subject to change without notice.		
KM814FS Distance to spot size	l:9 1:9	
Typical battery life (Alkaline)	Non-laser models: 22 hrs Laser Models: 12 hrs	
Power	9V Alkaline battery	
veight / JagieW	mm 86 x 101 x 231 ;162 x 101 x 38 mm (0.5 lb); 152 x 101 x 3.1 x 4 x 6)	
Storage temperature	+20°C to +65°C (-4°F to +150°F) without battery	
Relative humidity	10–95% RH noncondensing, @ up to +30°C (+86°F)	
Ambient operating range	0°C to +50°C (+32°F to +120°F)	
Emissivity KM812/KM814 KM814FS	76.0 Jes-91q 76.0 Jes-91q	
KW814E2 KW815\KW814 2bectus tesbouse	mų 81–7 mų 41–8	
Response time	500 mSec, 95% response	
	above +66°C (+32°F): 1.5% of reading P6.2°F (+32°F): 1.5% of the section 1.5% charges 1.5%	
Accuracy (assumes ambient operating temperature of 23°C [73°F])	KM812/KM814 for targets at: +2% of reading or ±2°C (±3.6°F), whichever is greater whichever is greater whichever is greater	
Temperature display	0.5°C or 1.0°F	
Temperature Range KM812 and KM814	-18°C to +200°C (-25°F to +400°F)	

SPECIFICATIONS

HOW TO MEASURE TEMPERATURE ACCURATELY

LOCATING A HOT SPOT

To find a hot spot aim the thermometer outside the area of interest. then scan across with an up and down motion until you locate the hot spot.

FIELD OF VIEW

Make sure that the target is larger than the unit's spot size. The smaller the target, the closer you should be to it. When accuracy is critical, make sure the target is at least twice as large as the spot

DISTANCE & SPOT SIZE

As the distance from the object increases, the spot size of the area measured by the unit becomes larger.

REMINDERS

- · Not recommended for use in measuring shiny or polished metal surfaces (stainless steel, aluminium, etc.).
- · The unit cannot measure through transparent surfaces such as glass. It will measure the surface temperature of the glass
- Steam, dust, smoke, etc., can prevent accurate measurement by obstructing the units optics.

EMISSIVITY

Most organic materials and painted or oxidized surfaces have an emissivity of 0.95 (pre-set in the unit) NOTE: KM814FS pre-set at 0.97. Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover the surface to be measured with masking tape or matt black paint. Allow time for the tape to reach the same temperature as the the material underneath it. Measure the temperature of the tape or painted surface.

MAINTENANCE

Lens Cleaning: Blow off loose particles using clean compressed air. Gently brush remaining debris away with a camel hair brush. Carefully wipe the surface with a moist cotton swab. The swab may be moistened with water.

NOTE: DO NOT use solvents to clean the plastic lens. Case Cleaning: Use soap and water on a damp sponge or soft cloth. NOTE: DO NOT submerge the unit in water

TROUBLESHOOTING

CODE	PROBLEM	ACTION
(on display)	Target temperature is over or under range	Select target within specifications
Battery icon appears	Possible low battery	Check and/or replace battery
Blank display	Possible dead battery	Check and/or replace battery
Laser doesn't work	Low or dead battery	Replace battery

CE CERTIFICATION

This instrument conforms to the following standards:

- EN50081-1:1992. Electromagnetic Emissions
- · EN50082-1:1992, Electromagnetic Susceptibility

Tests were conducted using a frequency range of 27-500 MHz with the instrument in three orientations. The average error for the three orientations is ±4.8°C (±8.6°F) at 3 V/m throughout the spectrum. However, between 190 MHz and 500 MHz at 3 V/m, the instrument may not meet its stated accuracy.

WARRANTY

All Comark instruments have a minimum one year warranty unless otherwise stated. The warranty period for temperature probes is for six months and all other probes and electrodes are unwarranted because the conditions of use are beyond our control.

The Comark warranty covers manufacturing defects and component failure and applies worldwide. The warranty does not affect your statutory rights. In line with our policy of continuous development we reserve the right to alter any product specifications without notice

Comark Instruments. 52 Hurricane Way, Norwich, Norfolk NR6 6JB United Kingdom Tel: +44 844 815 6599 Fax: +44 844 815 6598

COMARK www.comarkinstruments.com

Email: sales@comarkinstruments.com

RAYMTFSU Economical Infrared NONCONTACT THERMOMETER



